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BRUHAT BANGALORE MAHANAGARA PALIKE
YALAHANKA ZONE

Estimate of Work: Estimate for Construction of school building in Narasipura in Ward No. 09 in Idiyaranyapura sub division.

		Estimate Cost Rs.						2000000.00	
SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification NO. KBS 4.6.2 Page No. 16/ Item No. 4.28/ PWD SR 2013-14	Sqm							
	Column		12	1.36		4.00	65.28		
			6	1.00		4.00	24.00		
	Plinth		2	75.00		0.45	67.50		
	Lintel		2	75.00		0.20	30.00		
							186.78	226.48	42302.00
	Basic Rate	208.00							
	Area Weightage @ 6%	12.48							
	Add lift charges	6.00							
	Total	226.48							
2	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.37/ PWD SR 2013-14	Sqm							
			6	1.60	0.60		5.76		
							5.76	248.74	1433.00
	Basic Rate	229.00							
	Area Weightage @ 6%	13.74							
	Add lift charges	6.00							
	Total	248.74							
3	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs , landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.16 / I.4.29) PWD SR 2013-14	Sqm							
	Roof Rooms 1		1	11.49	5.54		63.65		
	Front 1		1	10.21	2.50		25.53		
	Room Beams		1	6.25	0.91		5.69		
			3	6.00	0.91		16.38		
	Front Beams		5	2.50	0.76		9.50		
	Tie Beam		2	75.00		0.15	22.50		
	Front Beams		2	25.00		0.30	15.00		
	Bottom		1	15.00		0.23	3.45		
			2	10.21		0.30	6.13		
			1	10.21		0.23	2.35		
			10	2.50		0.30	7.50		
			5	2.50		0.23	2.88		
							180.55	290.08	52373.00
	Basic Rate	268.00							
	Area Weightage @ 6%	16.08							
	Add lift charges	6.00							
	Total	290.08							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 Page No. 13 / Item No. 4.11 PWD SR - 2013-14	Cum							
	Column		12	0.45	0.23	3.00	3.73		
			6	0.23	0.23	3.00	0.95		
	Plinth		1	75.00	0.23	0.15	2.59		
	Lintel		1	75.00	0.23	0.15	2.59		
	Beam		4	6.25	0.30	0.45	3.38		
	Front Beam		1	10.21	0.23	0.23	0.54		
			1	20.20	0.23	0.23	1.07		
			5	2.50	0.23	0.23	0.66		
	Tie Beam		1	75.00	0.23	0.30	5.18		
	Roof Slab		1	9.00	8.75	0.125	9.84		
			1	20.20	8.50	0.125	21.46		
	Stair case								
	Landing		1	2.00	2.00	0.15	0.60		
	First Flight		1	3.00	1.00	0.15	0.45		
	Second Flight		1	3.00	1.00	0.15	0.45		
	Steps		20x1/2	1.00	0.30	0.15	0.45		
							53.93	5635.32	303909.00
	Basic Rate	5222.00							
	Area Weightage @ 6%	313.32							
	Add lift charges	100.00							
	Total	5635.32							
5	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of mix M20 with OPC cement @ 24kgs, with 12 mm and down size graded granite metal coarse aggregates @ 0.5175 cum and fine aggregates @ 0.345 cum with superplastisier @ 0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, curing, complete as per specification. Specification NO. KBS 4.1, 4.6 Page No. 15 / Item No. 4.19 / PWD SR 2013-14	Sqm							
	W		6	1.60	0.60		5.76		
							5.76	411.98	2373.00
	Basic Rate	383.00							
	Area Weightage @ 6%	22.98							

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Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Add lift charges	6.00							
Total	411.98							
4.9.2 : Providing TMT steel reinforcement C.C work including straightening, cutting, g, hooking, placing in position, lapping and welding wherever required, tying with binding and anchoring to the adjoining members ever necessary complete as per design hooks and wastage shall not be measured (paid) cost pf materials, labour, HOM of inery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item .46.2 TMT Bar FE 500 PWD SR 2013-14								
	Qntl							
For Roof, Columns & Beams @ 125 Kg / Cum		1.25	53.93			67.41		
Chajjas @ 10 Kg / Cum		0.10	5.76			0.58		
						67.99	7312.94	497190.00
Basic Rate	6899.00							
Area Weightage @ 6%	413.94							
Total	7312.94							
RB 6-5.3 : Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 50 (able moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 Page No. 32/Item No. 6.17/ PWD SR 2013-14								
	Cum							
Long Wall		2	10.21	0.23	3.00	14.09		
Parapet Wall		2	19.20	0.23	3.00	26.50		
		2	10.21	0.23	0.60	2.82		
		2	19.50	0.23	0.60	5.38		
Front Wall		4	8.04	0.23	0.60	4.44		
		1	10.21	0.12	1.00	1.23		
		1	19.20	0.12	1.00	2.30		
Staircase backside		1	2.50	0.12	1.00	0.30		
Stage		1	3.00	0.23	3.00	2.07		
		4	2.50	1.50	0.25	3.75		
						62.87		
Deduct for Openings Door		5	1.20	0.23	2.10	2.90		
Windows		12	1.50	0.23	1.20	4.97		
Lintel		1	75.00	0.23	0.15	2.59		
Tie Beam		2	75.00	0.23	0.15	5.18		
						15.63		
						47.24	5889.72	278257.00
Basic Rate	5462.00							
Area Weightage @ 6%	327.72							
Add lift charges	100.00							
Total	5889.72							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRB 10-2: Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75kg/sqm conforming admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement layer of cement	Sqm							
		1	19.20	8.50		163.20		
						163.20	785.10	128128.00
Basic Rate	735.00							
Area Weightage @ 6%	44.10							
Add lift charges	6.00							
	785.10							
KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 122 / Item No. 15.21 / PWD SR -2013-14	Sqm							
Room1		1	9.75	5.79		56.45		
Room 2,3,4		3	11.49	5.54		190.96		
Beams		8	6.25	0.45		22.50		
Front Beams		10	2.50	0.30		7.50		
		2	19.20	0.30		11.52		
		2	10.21	0.30		6.13		
						295.06	169.24	49936.00
Basic Rate	154.00							
Area Weightage @ 6%	9.24							
Add lift charges	6.00							
Total	169.24							
10 KSRB 15.3.11 :Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 123 / Item No. 15.19 / PWD SR 2013-14 (Inside wall)	Sqm							
Room1		1	9.75	3.00		29.25		
		1	5.79	3.00		17.37		
Room 2, 3, 4		3	11.49	3.00		103.41		
		3	5.54	3.00		49.86		
Staircase		1	3.00	3.00		9.00		
Below Staircase		2	3.30	1.50		9.90		
Landing		1	3.00	2.00		6.00		
						224.79		
Deductions - For door Doors		3x0.5	1.20		2.10	3.78		
Windows		6x0.5	1.50		1.20	5.40		
						9.18		
						215.61	205.28	44260.00

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	188.00							
	Area Weightage @ 6%	11.28							
	Add lift charges	6.00							
	Total	205.28							
11	KSRB 15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. (P. 124 / I. 15.33 PWD SR - 2013-14).	Sqm							
	Basic Rate	18.00							
	Area Weightage @ 6%	1.08							
	Add lift charges	6.00							
	Total	25.08							
			Qty Vide Item No. 9+10				510.67	25.08	12808.00
12	Providing wall black boards in CM 1:3 two coats of black paint including finishing etc, complete, No. 272 / Item No. 37.30 PWD SR 2013-14	Sqm							
	Basic Rate	786.00	2	2.60	1.32		6.86	839.16	5760.00
	Area Weightage @ 6%	47.16							
	Add lift charges	6.00							
	Total	839.16							
13	KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Page No. 123 / Item No. 15.17 / PWD SR 2013-14 (Out side Wall)	Sqm							
	Out Side		2	10.21		4.13	84.33		
			2	19.20		4.13	158.59		
			4	6.25		4.13	103.25		
	Stair case		1	3.00		4.13	12.39		
							358.57		
	Deductions - For door Doors		3x0.5	1.20		2.10	3.78		
	Windows		6x0.5	1.50		1.20	2.70		
							6.48		
							352.09	171.36	60334.00
	Basic Rate	156.00							
	Area Weightage @ 6%	9.36							
	Add lift charges	6.00							
	Total	171.36							
14	Supply and fixing pressed steel door frames size 125x65 mm manufacture from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and sutters made out of seasoned honne wood, styles of 30mm, thick with lock rail of 160mm, width, top and side rails of 100mm, width width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be not proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years, this shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting wit enamel paint 2 coats over primer coat, cost of labour for all items of	Sqm							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		2	1.20		2.10	5.04		
Basic Rate	3500.00					5.04	3710.00	18698.00
Area Weightage @ 6%	210.00							
Total	3710.00							
5 "Supplying and fixing pressed steel window frame of size 100x50mm manufacture from 1.25 mm thick carbon steel or imported steel strips with neat mitred joints at 900degree for window openings and shall be suitable to fix M.S grills as per design and drawings using 12mm dia roads at 100mm centre to centre horizontally and two members of M.S flats of 6mmx40mm size at 150mm apart, welded into a frame of 6mmx40mm size M.S flats with 16mm size lugs, and 8nos, of 100mm size hinger, 4nos of butt stay pins and 4nos, tower bolts and shutters half paneled and half glazed with shutters made out of seasoned honne wood, styles of 30mm thick and 100 mm width and rails of 30mm thick and 100 mm width and using 4mm thick pin headed glass and panel, filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and								
Windows	Sqm							
		6	1.50		1.20	10.80		
Basic Rate	3800.00					10.80	4028.00	43502.00
Area Weightage @ 6%	228.00							
Total	4028.00							
KSRB 14.10-1 : Flooring with 25mm to 40mm thick polished Thandur blue stone slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. (P.112 / I.14.15 PWD SR - 2013-14).								
Room1	Sqm							
Skirting		1	9.75	5.79		56.45		
		1	9.75	0.10		0.98		
Room 2, 3, 4		1	5.79	0.10		0.58		
Skirting		2	5.00	5.54		55.40		
		2	5.00	0.10		1.00		
		2	5.54	0.10		1.11		
Front		1	10.21	2.04		20.83		
Skirting		2	10.21	0.10		2.04		
		2	2.04	0.10		0.41		
For First Floor For Steps		2	2.04	0.10		0.41		
		20	1.00	0.15		3.00		
Landing		20	1.00	0.15		3.00		
		1	2.00	2.00		4.00		
Basic Rate	960.00					149.20	1017.60	151827.00
Area Weightage @ 6%	57.60							
Total	1017.60							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labours, complete as per specifications PWD SR 2013-14 (P.126 / I. 15.49)	Sqm							
			Qty Vide Item No.9+10				510.67		
							510.67	59.36	30314.00
	Basic Rate	56.00							
	Area Weightage @ 6%	3.36							
	Total	59.36							
18	KSRB 15-16.1: providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after thorough brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, complete as per specifications PWD SR 2013-14 (P.127 / I.15.53.2) with Primer	Cum							
			Qty Vide Item No.12				352.09		
							352.09	78.44	27618.00
	Basic Rate	74.00							
	Area Weightage @ 6%	4.44							
	Total	78.44							
PART - 3 ELECTRICAL AND FITTINGS									
9	Groove Cutting : Supplying ... dia 2mm/2.5mm thick heavy gauage PVC Conduit Pipe with bends metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary 32 mm dia 2.5mm thick KPWD SR 2010-11 (P-2,I-3)	Mtrs							
			1	50.00			50.00	68.00	3400.00
20	Supplying and flush mounting teak wooden box with out front plank made of not less than 12mm thick wood after due groove cutting necessary masonry patch work complete 10"X7"X3" (300X228X76mm). KPWD SR 2010-11 (P-3, I-6)	Each							
	8"X6"X3" (300X228X76mm)		5				5	68.00	340.00
			5				5	52.00	260.00
21	Supplying and fixing PVC/metal conduit accessories special type Junction Box 32 mm Junction Box (I. 5/P. 3) KPWD SR 2010-11	Each							
	Deep 32 mm Junction Box		15				15	29.00	435.00
	Fan Box 18 /SWG		8				8	33.00	264.00
			5				5	57.00	285.00

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Description of item		Unit	No	L	B	D	Qty	Rate	Amount
22	Point Wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing using Copper PVC insulated multi strand 2x1.5 Sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet gang box the other end of the wires shall be terminated with sufficient loose length in a wood PVC round block complete for each outlet Point Wiring using Class A Materials a) Short point upto 3Mtr from tapping point to out let via switch KPWD SR 2010-11 (P.3/I.8)	Each							
			8				8.00	175.00	1400.00
			10				10.00	260.00	2600.00
			6				6.00	368.00	2208.00
23	Supplying and fixing superior quality modular switch mounting polyarbonate plate with necessary supporting back plate with required nos. of machines screws, bolts nuts etc., complete on the existing metal/PVC 1 to 3 Modular box KPWD SR 2010-11 (P-7, I-17)	Each							
			6				6	82.00	492.00
			6				6	175.00	1050.00
24	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate 6Amps one way KPWD SR 2010-11 (P.8/I.18)	Each							
			15				15	96.00	1440.00
			8				8	165.00	1320.00
			5				5	520.00	2600.00
25	Supply patty type fluorescent tube light fitting of 4' - 36/40 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking, locking type brass contact holder mounted on double fold type sheet base fully wired for used on 230 Volts A C Supply including fluourescent tube Group 'A' KPWD SR 2010-11 (P.16/I.2)	Each							
			4				4	380.00	1520.00
26	Supplying of Incandescent lamps KPWD SR 2010-11 (P.44/I.22)								
			5				5	14.00	70.00
27	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system KPWD SR 2010-11 (P-23, I-23) Regulator Model (Khaitan, Crompton Geaves, Orient, Polar, Bajaj, Usha, Havells, Almonard 56" Sweep (1400 mm)	Each							
			4				4	1950.00	7800.00
28	Supplying and fixing 32Amps security and energy savings DP switch with key tag suitable to operate on 230 Volts 50Hz AC supply & completely wired on existing box Group A KPWD SR 2010-11 (P.9/I.19)	Each							
			1				1	630.00	630.00

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
29	Supplying an fixing one of 230 volts PBBC bakelite staight or slant batten holder and wiring with in 60w/230 Volts lamps KPWD SR 2010-11 (P-13, I.2)	No							
			1				1	60.00	60.00
30	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required 5-32 Amps SP KPWD SR 2010-11 (P.34/I.13)	Each							
			1				1	560.00	560.00
31	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc 20"x20"x2.5" KPWD SR 2010-11 (P.32/I.2)								
			1				1	285.00	285.00
32	Supplying and fixing of porcelain fuse channel with cut out on existing wooden /panel using necessary nuts, bolts and washers etc complete 32 Amps KPWD SR 2010-11 (P.30/I.3)								
			1				1	100.00	100.00
33	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipment on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit.. The pit should be filled with equal propotion of salt and charcol 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3 of Is 732 using 12mm dia nuts, washers and checknuts etc the pipe shall have 16 through holes of 122 mm dia KPWD SR 2010-11 (P.68/I.1)	No							
			1				1	1950.00	1950.00
34	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phas and 4 single core wies for 3 phase supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two breaks insulators, one at each end of the span wit suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes (single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No. 14SWG) GI wire suitably bent and twisted. Separate reel insulated shall be provided for each wire the messenger wire shall be bed-ended on the clamp provided to the departmental pole wide item No. 4 above c) 6 Sqmm (Page No. 56 Item No. 5a) KPWD SR 2010-11 Item No. 65 / Page No. 5 c)	Mtr							
			2	10.00		20.00	45.00		900.00
35	Sub Total								1782991.00

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
36	KRIDL Service Charges and Applicable Taxes @ 11%								196129.00
37	For Third Party QC Charges @ 1%								17830.00
38	Miscellaneous and other Charges	L/S							3050.00
								Total	2000000.00

(Rs. Twenty Lakhs Only)

CERTIFICATE:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per P.W.D S.R of 2013-14.
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits.


Assistant Engineer

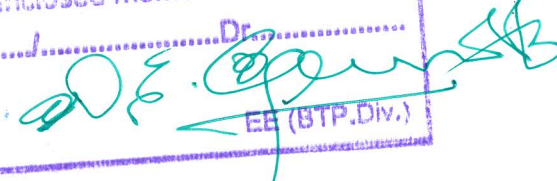

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division


Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 20.00 lakhs
Tenurely lakhs only

EE/BTP/393/

Registered on EE file..... Dated..... Subject.....
to conditions contained enclosed memo.

No:..... Dr. 
EE (BTP, Div.)

AE/NE

Construction of School Building in Narasipura in Ward No-03 in Indiyarangaipura Sub.District



INDEX

Door - 1.20 x 2.10m

Window - 1.50 x 2.07m

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ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಅಧೀನದಲ್ಲಿ
ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧೀನದಲ್ಲಿ
ಯಶಸ್ವಿ ಹಂಚಿಕೆಯಲ್ಲಿ
ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧೀನದಲ್ಲಿ